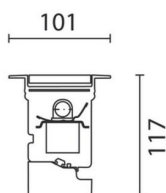


Last information update: May 2018

**Linear Recessed - Neutral White LED - Electronic control gear 220-240V ac - L=601 mm - R13 anti-slip glass - Flood Optic****Product code**

BM98

Technical description

Direct light luminaire, designed to use monochrome LED lamps. Ground-, wall- and ceiling-recessed. Consists of a body and outer casing for installation, to be ordered separately. Extruded aluminium body, with die-cast aluminium end caps complete with silicone seals. Coated with liquid acrylic paint with a high level of weather and UV ray resistance. Lower PPS (polyphenylene sulfide) power box. The top of the optical assembly is closed by an 8 mm thick anti-slip glass screen (conforming to class R13 in accordance with DIN 51130), fixed with silicone. Complete with multi-LED power plate in Neutral White. Fitted with optics with plastic (methacrylate) lens for Flood lighting. The lower box has two PG11 nickel-plated brass cable glands for pass-through wiring, suitable for cables Ø6.5-11 mm. To fix the optical assembly to the outer casing the product has a quick coupling system using Allen keys. Outer casing for installation made of aluminium with technopolymer covers, to be ordered separately. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

Installation

Ground- and wall-recessed using the outer casing, to be ordered separately. For ground installation a drainage channel must be created or gravel inserted for drainage under the outer casing before installation, to guarantee the degree of protection stated. For ceiling-mounting with plasterboard panels (1-30 mm thick), make the preparation openings as indicated in the instructions sheet and use the accessory with code 5926 (kit containing steel cables with reinforcement plates).

Dimension (mm)

601x101x117

Colour

Grey (15)

Weight (Kg)

2.35

Mounting

wall recessed|ceiling recessed|ground recessed

Wiring

Equipped with electronic control gear 220-240V ac, 50/60Hz contained in the luminaire. For electrical connection the product has a lower box holding the terminal board (2-pin, max. 6mm²) and double cable glands for pass-through wiring.

Notes

Product complete with LED lamp. The frame, glass, optical assembly and outer casing together guarantee a maximum static load resistance of 1000 kg.

Complies with EN60598-1 and pertinent regulations

**Product configuration: BM98****Product characteristics**

Total lighting output [Lm]: 800
 Total power [W]: 19.9
 Luminous efficacy [Lm/W]: 40.2
 Life Time: 100,000h - L80 - B10 (Ta 25°C)
 Ambient temperature range: from -20°C to +35°C.

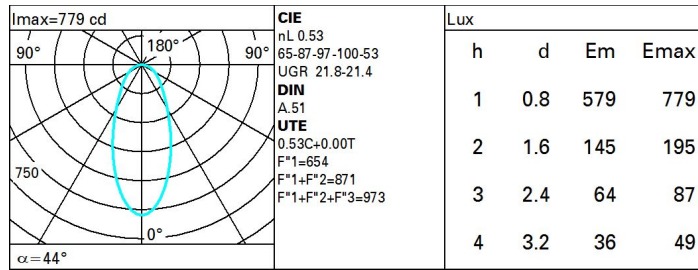
Total luminous flux at or above an angle of 90° [Lm]: 0
 Emergency luminous flux [Lm]: /
 Voltage [V]: -
 Life Time: 66,000h - L80 - B10 (Ta 40°C)
 Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 53
 Lamp code: LED
 ZVEI Code: LED
 Nominal power [W]: 18
 Nominal luminous [Lm]: 1510
 Lamp maximum intensity [cd]: /
 Beam angle [°]: 44°

Number of lamps for optical assembly: 1
 Socket: /
 Ballast losses [W]: 1.9
 Colour temperature [K]: 4000
 CRI: 80
 Wavelength [Nm]: /
 MacAdam Step: 3

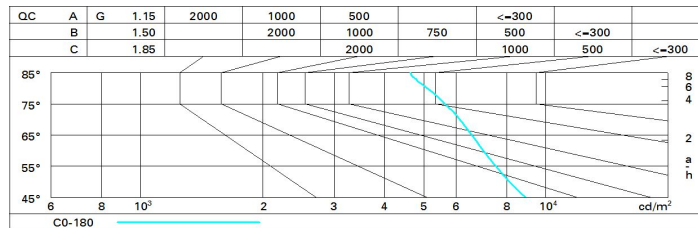
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	39	35	31	29	34	31	31	28	53
1.0	42	38	35	33	37	35	34	31	59
1.5	47	43	41	39	43	40	40	37	70
2.0	50	47	45	43	46	44	43	41	77
2.5	51	49	47	46	48	46	46	43	82
3.0	52	50	49	47	49	48	47	45	85
4.0	54	52	51	50	51	50	49	47	89
5.0	54	53	52	51	52	51	50	48	91

Luminance curve limit



UGR diagram

Corrected UGR values (at 1510 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		viewed crosswise					viewed endwise				
x	y										
2H	2H	18.4	19.4	18.7	19.7	19.9	18.4	19.4	18.7	19.7	19.9
	3H	19.7	20.6	20.1	20.9	21.2	18.8	19.8	19.2	20.0	20.3
	4H	20.2	21.1	20.6	21.4	21.7	19.0	19.8	19.3	20.2	20.5
	6H	20.6	21.4	21.0	21.8	22.1	19.0	19.8	19.4	20.2	20.5
	8H	20.8	21.5	21.2	21.9	22.2	19.0	19.8	19.4	20.1	20.5
	12H	20.9	21.6	21.3	22.0	22.3	19.0	19.7	19.4	20.1	20.5
4H	2H	19.0	19.8	19.3	20.2	20.5	20.2	21.1	20.6	21.4	21.7
	3H	20.5	21.2	20.9	21.6	21.9	20.9	21.6	21.2	21.9	22.3
	4H	21.1	21.8	21.5	22.1	22.5	21.1	21.8	21.5	22.1	22.5
	6H	21.6	22.2	22.1	22.6	23.0	21.3	21.9	21.8	22.3	22.7
	8H	21.8	22.3	22.3	22.8	23.2	21.4	21.9	21.8	22.3	22.8
	12H	21.9	22.4	22.4	22.9	23.3	21.4	21.9	21.8	22.3	22.7
8H	4H	21.4	21.9	21.8	22.3	22.8	21.8	22.3	22.3	22.8	23.2
	6H	22.0	22.5	22.5	22.9	23.4	22.1	22.6	22.6	23.0	23.5
	8H	22.3	22.7	22.8	23.1	23.6	22.3	22.7	22.8	23.1	23.6
	12H	22.5	22.8	23.0	23.3	23.8	22.4	22.7	22.9	23.2	23.7
12H	4H	21.4	21.9	21.8	22.3	22.7	21.9	22.4	22.4	22.9	23.3
	6H	22.1	22.4	22.6	22.9	23.4	22.3	22.7	22.8	23.2	23.7
	8H	22.4	22.7	22.9	23.2	23.7	22.5	22.8	23.0	23.3	23.8
Variations with the observer position at spacing:											
S =	1.0H	0.1 / -0.2					0.1 / -0.2				
	1.5H	0.2 / -0.5					0.2 / -0.5				
	2.0H	0.5 / -0.7					0.5 / -0.7				